

CLAIMS

1. A coreless linear motor comprising:

a slider which is made up of an armature winding which includes a plurality of coils and a slider mounting table which supports the
5 armature winding, and

a stator which is made up of permanent magnets which form a plurality of magnetic poles and back yokes, wherein

both left and right sides of the armature winding is sandwiched by the permanent magnets via a gap,

10 a concave portion is provided in a lower side of the slider mounting table,

a coil upper side which corresponds to an upper side of the coil is inserted in the interior of the concave portion in the slider mounting table, and

15 a space is provided in the vicinity of a coil lower side which corresponds to a lower side of the coil for performing a connecting process between the coils or the coil and a lead wire.

2. The coreless linear motor as set forth in Claim 1, wherein

20 a space for performing a connecting process is provided directly below the coil lower side.

3. The coreless linear motor as set forth in Claim 1, wherein a space for performing a connecting process is provided on both left and right sides of the coil lower side.

5 4. The coreless linear motor as set forth in any of Claims 1 to 3, further comprising:

a cooling passageway provided in the slider mounting table for the passage of a refrigerant or air.